

**AMENDMENTS TO THE CLAIMS:**

Amend the claims as follows:

Claims 1-87. (Canceled)

88. (Currently Amended) A method of determining the presence or absence of dysplastic or neoplastic cells in a cytology test sample containing cells from an individual, wherein the test sample comprises a specimen selected from the group consisting of a sputum sample, a bronchio-alveolar lavage sample~~specimens~~, a urine sample, a breast duct fluid sample, a brushings from the alimentary tract, and a cervical cytology sample, a fecal sample, ~~or and a urine sample~~~~cytology smears~~, the method comprising:

contacting the test sample with an antibody or antibody fragment directed against Minichromosome Maintenance protein 2 (MCM2 protein); and

determining the amount ~~and/or pattern~~ of binding of said antibody or antibody fragment to said test sample;

whereby an increase in said amount ~~and/or a difference in said pattern~~ if detected for the test sample compared with a normal sample is indicative of presence of dysplastic or neoplastic cells in said test sample.

Claims 89-100. (Canceled)

101. (Previously Presented) A method according to claim 88 wherein the sample is provided from fluid taken from the individual.

102. (Previously Presented) A method according to claim 101 wherein a sample of cells is provided from said fluid.

Claim 103. (Canceled)

104. (Previously Presented) A method according to claim 101 wherein the fluid is urine.

105. (Previously Presented) A method according to claim 88 wherein a population of individuals is screened.

Claim 106. (Canceled)

107. (Previously Presented) A method according to claim 88 wherein the sample is a cervical smear.

Claim 108. (Canceled)

109. (Previously Presented) A method according to claim 107 wherein a population of individuals is screened.

110. (Previously Presented) A method according to claim 101 wherein a population of individuals is screened.

111. (Previously Presented) A method according to claim 104 wherein a population of individuals is screened.